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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Application Number	10/783,927
Filing Date	February 20, 2004
First Named Inventor	Ronald A. Fleming
Art Unit	1614
Examiner Name	James D. Anderson
Attorney Docket Number	Kucera-5001

**U. S. PATENT DOCUMENTS**

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.*	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (# known)			
	A1	US- 3,798,209-A	03-19-1974	Witkowski et al.	
	A2	US- RE29,835-Re	11-14-1978	Witkowski et al.	
	A3	US- 4,211,771-A	07-08-1980	Witkowski et al.	
	A4	US- 4,444,766-A	04-24-1984	Bosies et al.	
	A5	US- 4,493,832-A	01-15-1985	Teraji et al.	
	A6	US- 4,522,811-A	06-11-1985	Eppstein et al.	
	A7	US- 4,559,157-A	12-17-1985	Smith et al.	
	A8	US- 4,562,179-A	12-31-1985	Teraji et al.	
	A9	US- 4,599,205-A	07-08-1986	Lautenschlager et al.	
	A10	US- 4,608,392-A	08-26-1986	Jacquet et al.	
	A11	US- 4,820,508-A	04-11-1989	Wortzman	
	A12	US- 4,938,949-A	07-03-1990	Borch et al.	
	A13	US- 4,992,478-A	02-12-1991	Geria	
	A14	US- 5,026,687-A	06-25-1991	Yarchoan et al.	
	A15	US- 5,116,992-A	05-26-1992	Braquet et al.	
	A16	US- 5,496,546-A	03-05-1996	Wang et al.	
	A17	US- 5,614,548-A	03-25-1997	Piantadosi et al.	
	A18	US- 5,633,388-A	03-27-1997	Diana et al.	
	A19	US- 5,770,584-A	06-23-1998	Kucera et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Signature	Date Considered
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>2</sup>Applicant's unique citation designation number (optional).<sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.<sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO STANDARD ST.3).<sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.<sup>7</sup>Applicant is to place a check mark here if English language Translation is attached.

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A20	US- 5,830,905-A1	11-03-1998	Diana et al.		
A21	US- 5,846,964-A1	12-08-1998	Ozeki		
A22	US- 5,891,874-A1	04-06-1999	Colacino et al.		
A23	US- 5,922,757-A1	07-13-1999	Chojkier et al.		
A24	US- 5,962,437-A1	10-05-1999	Kucera et al.		
A25	US- 6,034,134-A1	03-07-2000	Gold et al.		
A26	US- 2002/0082242-A1	06-27-2002	Kucera et al.		
A27	US- 6,429,227-B1	08-06-2002	Schneider et al.		
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document <small>Country Code<sup>3</sup>-Number<sup>4</sup>-Kind Code<sup>5</sup> (if known)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
B1	DE 19914474		10-07-1999	Hoffmann-La Roche	abstract	
B2	JP 06-200690		10-15-1990	Eisai Co. Ltd.	abstract	No translation
B3	JP 10-101591		04-21-1998	Eisai Co. Ltd.	abstract	
B4	WO 90/11079		10-04-1990	Alcon Laboratories		
B5	WO 91/05558		05-02-1991	Boehringer-Mannheim	abstract	
B6	WO 91/09602		07-11-1991	Boehringer-Mannheim	abstract	

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B7	WO 92/22289		12-12-1992	University of California	
B8	WO 93/08807		05-13-1993	Fost/Perella Komor	
B9	WO 96/06620		03-07-1996	Wake Forest U.; U.N.C.	
B10	WO 96/39197		12-12-1996	IMARx Pharmaceutical	
B11	WO 98/17679		04-30-1998	Vertex Pharmaceutical	
B12	WO 98/22496		05-28-1998	Hoffmann-La Roche	

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**U. S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

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**Examiner** \_\_\_\_\_ **Date Considered** \_\_\_\_\_

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Sheet 5 of 8 Attorney Docket Number Kucera-5001

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	ALT, M., et al.: "Specific inhibition of hepatitis C viral gene expression by antisense phosphorothioate oligodeoxynucleotides," Hepatology, 22:707-717, 1995	
	C2	ALT, M., et al.: "Core specific antisense phosphorothioate oligodeoxynucleotides . . ." Archives of Virology, 142:589-599, 1997	
	C3	ATTWOOD, et al.: "The design and synthesis of potent inhibitors of hepatitis C virus NS3-4A proteinase," Antiviral Chemistry and "Chemotherapy, 10(5):259-273, 1999	
	C4	BATTAGLIA, A.M., et al.: "Combination therapy with interferon and ribavirin in the treatment of chronic hepatitis C infection", Ann. Pharmacother, 34:487-494, 2000	
	C5	BERENGUER, M., et al.: "Hepatitis C virus in the transplant setting" Antivir. Ther., 3(supp. 3): 125-136, 1998	
	C6	BUCHEN-OSMOND, C., Togaviridae. In: ICTVdB - The Universal Virus Database, version 3. ICTVdB Management, <a href="http://ictvdb.scripps.edu/ICTVdB/00_002/01_001.htm">www.ictvdb.scripps.edu/ICTVdB/00_002/01_001.htm</a> . <b>No publication date</b>	
	C7	CENTERS FOR DISEASE CONTROL AND PREVENTION: "Update: Severe Acute Respiratory Syndrome-Worldwide . . ." Morbidity and Mortality Weekly Report, 52(28): 664-665, 2003	
	C8	CHU, M., et al.: "Structure of Sch 58631: A new hepatitis C proteinase inhibitor from Streptomyces sp.," Tetrahedron Letters, 37:7229-7232, 1996	
	C9	CINATL, J., et al.: "Treatment of SARS with human interferons," Lancet, 362(9380):293-294, 2003	
	C10	DAVIS, G.L.: " Current therapy for chronic Hepatitis C," Gastroenterology 118:S104-S114, 2000	

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<b>Art Unit</b>	1614
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	C11	FERRARI E., et al.: "Characterization of soluble hepatitis C virus RNA-dependent RNA polymerase expressed in Escherichia coli," Journal of Virology, 73(2), 1649-1654, 1999	
	C12	GALDERISI, U., et al.: "Antisense oligonucleotides as therapeutic agents, ", Journal of Cellular Physiology, 181(2):251-257, 1999	
	C13	HOLMES, K.V.: "SARS-associated coronavirus", New England Journal of Medicine, 348 (20):1948-1951, 2003	
	C14	HSU, LY., et al.: "Severe acute respiratory syndrome (SARS) in Singapore: clinical features of index patient and initial contacts," Emerg. Infect. Dis., 9(6):713-717, 2003	
	C15	KAKIUCHI, N., et al.: "Non-peptide inhibitors of HCV serine proteinase, " FEBS Letters, 421 (3):217-220, 1998	
	C16	KRUGNER-HIGBY, L., et al.: "Membrane-interactive phospholipids inhibit HIV type 1-induced cell . . ." AIDS Res. & Human Retrovir., 11(6):705-712, 1995	
	C17	KUCERA, L.S., et al.: "Synthesis and Evaluation of a Novel Synthetic Phosphocholine Lipid-AZT . . ." Nucleosides, Nucleotides, and Nucleic Acids, 23(1-2):385-399, 2004	
	C18	LOHMANN, V., et al.: "Biochemical and kinetic analyses fo NS5B RNA-dependent RNA polymerase of the hepatitis C Virus," Virology, 249(1):108-118, 1998	
	C19	MACEJAK, D.J., et al.: "Inhibition of viral replication by nuclease resistant hammerhead ribozymes directed . . ." Hepatology, 30(4 Pt 2):409A, abstract 995, 1999	
	C20	MARRA, M.A., et al.: "The Genome sequence of the SARS-associated coronavirus," Science, vol. 300 (5624):1399-1404, 2003	

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	C21	MEYER, K.L., et al.: "In vitro evaluation of phosphocholine and quaternary ammonium containing lipid . . ." Journal of Medicinal Chemistry, 34(4):1377-1383, 1991	
	C22	MORRIS-NATSCHKE, S., et al.: "Synthesis of sulfur analogues of alkyl lysophospholipid and neoplastic cell growth inhibitory properties," J. Med. Chem., 29(10):2114-2117, 1986	
	C23	OUYANG, H., et al.: "Structure-activity relationship for enhancement of paracellular permeability . . .," J. Med. Chem., 45(13):2857-2866, 2002	
	C24	PIANTADIOSI, C., et al.: "Synthesis and evaluation of novel ether lipid nucleoside conjugates for anti-HIV-1 activity," J. Med. Chem., 34(4):1408-1414, 1991	
	C25	POUTANEN, S.M., et al.: "Identification of severe acute respiratory syndrome in Canada," N. Engl. J. Med., 348(20):1995-2005, 2003	
	C26	QASIM, M.A., et al.: "Intescfolding additivity. Association of P1 variants of eglin c and of turkey ovomucoid third domain . . .," Biochemistry, 36(7):1598-1607, 1997	
	C27	RAINER, T.H., et al.: "Evaluation WHO criteria for identifying patients with severe acute respiratory syndrome out of hospital," Brit. Med. J., 326(7403):1354-1358, 2003	
	C28	ROTA, P.A., et al.: "Characterization of a novel coronavirus associated with severe acute respiratory syndrome," Science, 300(5624):1394-1399, 2003	
	C29	SUDO, K., et al.: "Novel hepatitis C virus protease inhibitors: thiazolidine derivatives," Biochemical and Biophysical Research Communications, 238:643-647, 1997	
	C30	SUDO, K., et al.: "Erratum: Novel hepatitis C virus protease inhibitors: 2,4,6-trihydroxy,3-nitro-benzamide . . .," Antiviral Chemistry and Chemotherapy, 8(6):186, 1998	

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	C31	SUDO, K., et al.: "Establishment of an in vitro assay system for screening hepatitis C virus protease inhibitors . . . ." Antiviral Research, 32(1):9-18, 1996	
	C32	TAKESHITA, N., et al.: "An enzyme-linked immunosorbent assay for detecting proteolytic activity of hepatitis C . . . ." Analytical Biochemistry, 247(2):242-246, 1997	
	C33	TSANG, K.W., et al., "A cluster of cases of severe acute respiratory syndrome in Hong Kong." N. Engl. J. Med., 348(20):1977-1985, 2003	
	C34	CHU, M., et al.: "Isolation and structure of SCH 351633: a novel hepatitis . . . ." Bioorganic and Medicinal Chemistry Letters, 9(14): 1949-1952, 1999	
	C35	KUCERA, L.S., et al.: "Novel membrane-interactive ether lipid analogs that inhibit infections HIV-1 production . . . ." Aids Res. Hum. Retrovirus, 6:491-501, 1990	

Examiner Signature	/James Anderson/	Date Considered	02/22/2008
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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